

### **ABSTRACT**

The invention provides a miniaturized multi-foil object for use in a laboratory environment and other practical applications that require small or portable and/or disposable high energy radiation optics. Specifically, the invention finds utility in high energy lithographic systems, such as X-ray or EUV lithography, as a condenser optic or in topographic systems. In lithographic systems, the present invention exhibits square symmetry, a relatively large aperture size, and disposability. Additionally, the multi-foil optic of the invention provides a high throughput efficiency.